Release B CDR RID Report

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Document Planning

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Review Release B CDR

Originator Ref

Priority 2

Section **Page** KB2-3 **Figure Table**

Category Name Planning (PLS) Design **Actionee** ECS

Sub Category

Subject 1) SCF Blind use of Resource Plan
2) No Resource Planning Candidate Plans

Description of Problem or Suggestion:

1) Current design of planning system has only one plan produced by Resource Planner. This is used by DAAC for what-ifs & operational use, and by the SCFs for what-ifs. Currently the SCF has no way of knowing, if the current Resource Plan is a "real" plan or the "what-if" plan.
2) Resource Planner uses reservations, not candidate plans. Management of what-if scenarios will be operationally difficult with this design.

Originator's Recommendation

1) Allow Resource Planner to produce & Production Planner to access, two (at least) plans - the operational plan & a suggested/what-if plan.
2) Use candidate plans, not reservations, as the basis for managing candidate plans.

GSFC Response by: Greg Hunolt **GSFC Response Date** 12/18/96

If the SCF needs to know the status of the Resource Plan, e.g., to determine if it is being used in any 'what if' activities, then a phone call to the DAAC can suffice.

HAIS Response by: Will Knauss **HAIS Schedule**

HAIS R. E. C. Schwartz **HAIS Response Date** 12/2/96

Because of the wording of the Level 3 requirements for product generation (which mention plans) and resource management (which addresses schedules), ECS has designed the resource management requirements to simply produce a single resource plan (i.e. a resource schedule) and had not intended to implement the resource management in the same manner as production planning with the ability to produce multiple "candidate" plans in addition to the "actual" plan. ECS has subsequently looked into implementing candidate resource plans and found that the complexity involved in producing candidate resource plans would require a major redesign of key components of the Planning Subsystem. The basic problem is that candidate resource plans are not supported by the Delphi Hughes Class libraries used by the Planning Subsystem. Modifying the Planning Subsystem to support resource plans would be a non-trivial task. We estimate that over 20 objects would need to be modified and that over 3000 SLOC would be required to implement this. Furthermore, the current ops concept of validating and approving single reservations giving each reservation several possible states doesn't fit with candidate plans. An additional level of complexity is added by the need to keep track of multiple candidate resource plans associated with multiple production plans (e.g. what happens when you activate a candidate production plan which was based on a candidate resource plan which was never activated?)

Given the complexity of the problem, the schedule constraints, and the lack of requirements in this area, ECS will not be providing candidate resource plan capabilities.

Status **Closed** **Date Closed** **12/20/96** **Sponsor** **Kempler**

****** **Attachment if any** ******

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